Panasonic

F616361

Required tools for Installation Works

1 Philips screw driver
2 Level gauge
3 Electric drill, hole core drill (ø2 3/4" (ø70 mm))
4 Hexagonal wrench (5/32" (4 mm))
5 Spanner
6 Pipe cutter
7 Reamer
8 Knife
9 Gas leak detector
10 Measuring tape
11 Thermometer
12 Megameter
13 Multimeter
14 Torque wrench
13.3 lbf.ft (18 N•m (1.8 kgf.m))
31.0 lbf.ft (42 N•m (4.3 kgf.m))
40.6 lbf.ft (55 N•m (5.6 kgf.m))
47.9 lbf.ft (65 N•m (6.6 kgf.m))
73.8 lbf.ft (100 N•m (10.2 kgf.m))
15 Vacuum pump
16 Digital Micron Gauge

SAFETY PRECAUTIONS

- Read the following "SAFETY PRECAUTIONS" carefully before installation.
- Electrical work must be installed by a licensed electrician. Be sure to use the correct rating of the power plug and main circuit for the model to be installed.
- The caution items stated here must be followed because these important contents are related to safety. The meaning of each indication used is as below. Incorrect installation due to ignoring of the instruction will cause harm or damage, and the seriousness is classified by the following indications.

⚠ WARNING	This indication shows the possibility of causing death or serious injury.
⚠ CAUTION	This indication shows the possibility of causing injury or damage to properties only.

The items to be followed are classified by the symbols:

⃠	Symbol with white background denotes item that is PROHIBITED.
❗ ⏚	Symbol with dark background denotes item that must be carried out.

- Carry out test running to confirm that no abnormality occurs after the installation. Then, explain to user the operation, care and maintenance as stated in instructions. Please remind the customer to keep the operating instructions for future reference.

⚠ WARNING

- Do not install outdoor unit near handrail of veranda. When installing air-conditioner unit on veranda of a high rise building, child may climb up to outdoor unit and cross over the handrail causing an accident.
- Do not use unspecified cord, modified cord, joint cord or extension cord for power supply cord. Do not share the single outlet with other electrical appliances. Poor contact, poor insulation or over current will cause electrical shock or fire.
- Do not tie up the power supply cord into a bundle by band. Abnormal temperature rise on power supply cord may happen.
- Do not insert your fingers or other objects into the unit, high speed rotating fan may cause injury.
- Do not sit or step on the unit, you may fall down accidentally.
- Keep plastic bag (packaging material) away from small children, it may cling to nose and mouth and prevent breathing.
- When installing or relocating air conditioner, do not let any substance other than the specified refrigerant, eg, air etc. mix into refrigeration cycle (piping). Mixing of air etc will cause abnormal high pressure in refrigeration cycle and result in explosion, injury etc.
- Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury etc.
- For R410A model, use piping, flare nut and tools which is specified for R410A refrigerant. Using of existing (R22) piping, flare nut and tools may cause abnormally high pressure in the refrigerant cycle (piping), and possibly result in explosion and injury.
- Thickness or copper pipes used with R410A must be more than 1/32" (0.8 mm). Never use copper pipes thinner than 1/32" (0.8 mm).
- It is desirable that the amount of residual oil is less than 0.0008 oz/ft (40 mg/10 m).
- Engage authorized dealer or specialist for installation. If installation done by the user is incorrect, it will cause water leakage, electrical shock or fire.
- Install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock or fire.
- Use the attached accessories parts and specified parts for installation. Otherwise, it will cause the set to fall, water leakage, fire or electrical shock.
- Install at a strong and firm location which is able to withstand the set's weight. If the strength is not enough or installation is not properly done, the set will drop and cause injury.
- For installation work, follow all electrical, building, plumbing, local codes, regulations and these installation instructions. If electrical circuit capacity is not enough or a defect is found in electrical work, it will cause electrical shock or fire.
- Do not use spliced wires for indoor / outdoor connection cable. Use the specified indoor / outdoor connection cable, refer to instruction ⑨ **INDOOR/ OUTDOOR UNIT ELECTRICAL WIRING** and connect tightly for indoor/outdoor connection. Clamp the cable so that no external force will have impact on the terminal. If connection or fixing is not perfect, it will cause heat-up or fire at the connection.
- Wire routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed perfectly, it will cause fire or electrical shock.
- This equipment must installed with an Earth Leakage Circuit Breaker (ELCB) or Ground Fault Current Interrupter (GFCI) or Appliance Leakage Current Interrupter (ALCI) that has been certified by an NRTL Certified Testing Agency and that is suitable for the voltages and amperages involved. Otherwise, if may cause electrical shock and fire in case of equipment breakdown.
- During installation, install the refrigerant piping properly before running the compressor. Operation of compressor without fixing refrigeration piping and valves at opened condition will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc.
- During pump down operation, stop the compressor before removing the refrigeration piping. Removal of refrigeration piping while compressor is operating and valves are opened will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc.
- Tighten the flare nut with torque wrench according to specified method. If the flare nut is over-tightened, after a long period, the flare may break and cause refrigerant gas leakage.
- After completion of installation, confirm there is no leakage of refrigerant gas. It may generate toxic gas when the refrigerant comes into contact with fire.
- Ventilate if there is refrigerant gas leakage during operation. It may cause toxic gas when the refrigerant comes into contact with fire.
- This equipment must be properly earthed. Earth line must not be connected to gas pipe, water pipe, earth of lightning rod and telephone. Otherwise, it may cause electrical shock in case of equipment breakdown or insulation breakdown.

⚠ CAUTION

- Do not install the unit at place where leakage of flammable gas may occur. In case gas leaks and accumulates at surrounding of the unit, it may cause fire.
- Do not release refrigerant during piping work for installation, re-installation and during repairing a refrigeration parts. Take care of the liquid refrigerant, it may cause frostbite.
- Do not install this appliance in a laundry room or other location where water may drip from the ceiling, etc.
- Do not touch the sharp aluminium fin, sharp parts may cause injury.
- Carry out drainage piping as mentioned in installation instructions. If drainage is not perfect, water may enter the room and damage the furniture.
- Select an installation location which is easy for maintenance.
- Power supply connection to the room air conditioner.
  Power supply cord shall be UL listed or CSA approved 3 conductor with minimum AWG14 wires.
  Power supply point should be in an easily accessible place for power disconnection in case of emergency.
  In some countries, permanent connection of this air conditioner to the power supply is prohibited.
  Fix power supply connection to a circuit breaker for permanent connection.
  Use NRTL approved fuse or circuit breaker (rating refers to name plate) for permanent connection.
- Installation work.
  It may need two people to carry out the installation work.

- **IMPORTANT**
  This product has been designed and manufactured to meet *ENERGY STAR®* criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achive rated capacity and efficiency. Installation of this product should follow the manufacturer's refrigerant charging and air flow instructions. **Failure to confirm proper charge and airflow may reduce energy efficiency and shorten equipment life.**

Attached accessories

No.	Accessories part	Qty.	No.	Accessories part	Qty.
1	Installation plate	1	5	Remote control holder	1
2	Installation plate fixing screw	5	6	Remote control holder fixing screw	2
3	Remote Control	1	7	Air purifying filter	1
4	Battery	2	8	Drain hose adapter	1

Applicable piping kit	Piping size	
	Gas	Liquid
CZ-3F5, 7BP	3/8" (9.52 mm)	1/4" (6.35 mm)
CZ-4F5, 7, 10BP	1/2" (12.7 mm)	1/4" (6.35 mm)
CZ-52F5, 7, 10BP	5/8" (15.88 mm)	1/4" (6.35 mm)

SELECT THE BEST LOCATION

INDOOR UNIT

- ❑ Do not install the unit in excessive oil fume area such as kitchen, workshop and etc.
- ❑ There should not be any heat source or steam near the unit.
- ❑ There should not be any obstacles blocking the air circulation.
- ❑ A place where air circulation in the room is good.
- ❑ A place where drainage can be easily done.
- ❑ A place where noise prevention is taken into consideration.
- ❑ Do not install the unit near the door way.
- ❑ Ensure the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.
- ❑ Recommended installation height for indoor unit shall be at least 8.2 ft (2.5 m).

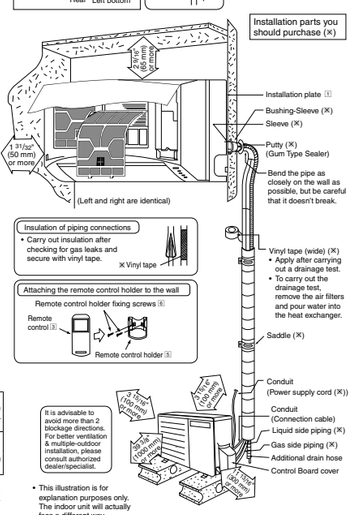
OUTDOOR UNIT

- ❑ If an awning is built over the unit to prevent direct sunlight or rain, be careful that heat radiation from the condenser is not obstructed.
- ❑ There should not be any animal or plant which could be affected by hot air discharged.
- ❑ Keep the spaces indicated by arrows from wall, ceiling, fence or other obstacles.
- ❑ Do not place any obstacles which may cause a short circuit of the discharged air.
- ❑ If piping length is over the [piping length for additional gas], additional refrigerant should be added as shown in the table.

Model	Capacity (Btu/h)	Piping size		Std. Length	Max. Elevation	Min. Piping Length	Max. Piping Length	Additional Refrigerant	Piping Length for add. gas
		Gas	Liquid						
S9NKUA	8500	3/8" (9.52 mm)	1/4" (6.35 mm)	24.6 ft (7.5 m)	49.2 ft (15 m)	9.8 ft (3 m)	65.6 ft (20 m)	0.2 oz/ft (20 g/m)	24.6 ft (7.5 m)
S12NKUA	12000	1/2" (12.7 mm)							

Example: For S9NKUA
If the unit is installed at 32.8 ft (10 m) distance, the quantity of additional refrigerant should be 1.64 oz (50 g) .... (32.8 - 24.6) ft x 0.2 oz/ft = 1.64 oz.
((10-7.5) m x 20 g/m = 50 g).

Indoor/Outdoor Unit Installation Diagram

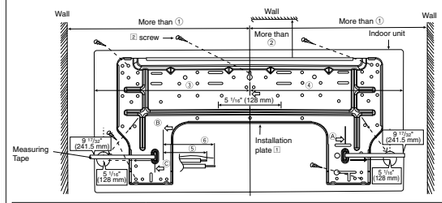

Piping direction
(Front side)
Right Rear
Right bottom
Left Rear
Left
Left bottom
Attention not to bend up drain hose
Installation parts you should purchase (※)
9 7/32" (235 mm) or more
3 31/32" (100 mm) or more
3 31/32" (100 mm) or more
3 31/32" (100 mm) or more
11 13/16" (300 mm) or more
11 13/16" (300 mm) or more
3 31/32" (100 mm) or more
3 31/32" (100 mm) or more
2 5/8" (65 mm) or more
3 31/32" (150 mm) or more
(Left and right are identical)
Installation plate 1
Bushing-Sleeve (※)
Sleeve (※)
Putty (※) (Gum Type Sealer)
Bend the pipe as closely on the wall as possible, but be careful that it doesn't break.
Vinyl tape (wide) (※)
• Apply after carrying out a drainage test.
• To carry out the drainage test, remove the air filters and pour water into the heat exchanger.
Saddle (※)
Conduit (Power supply cord (※))
Conduit (Connection cable)
Liquid side piping (※)
Gas side piping (※)
Additional drain hose
Control Board cover
Insulation of piping connections
• Carry out insulation after checking for gas leaks and secure with vinyl tape.
※ Vinyl tape
Attaching the remote control holder to the wall
Remote control holder fixing screws 6
Remote control 3
Remote control holder 5
It is advisable to avoid more than 2 blockage directions. For better ventilation & multiple-outdoor installation, please consult authorized dealer/specialist.
• This illustration is for explanation purposes only. The indoor unit will actually face a different way.

INDOOR UNIT

1 SELECT THE BEST LOCATION
(Refer to "Select the best location" section)

2 HOW TO FIX INSTALLATION PLATE

The mounting wall shall be strong and solid enough to prevent it from the vibration.



Model	Dimension					
	①	②	③	④	⑤	⑥
S9NKUA, S12NKUA	19 9/32" (490 mm)	3 7/32" (82 mm)	17 9/32" (439 mm)	17" (432 mm)	1 11/16" (43 mm)	3 3/4" (95 mm)

The center of installation plate should be at more than ① at right and left of the wall.
The distance from installation plate edge to ceiling should more than ②.
From installation plate left edge to unit's left side is ③.
From installation plate right edge to unit's right is ④.
Ⓑ : For left side piping, piping connection for liquid should be about ⑤ from this line.
: For left side piping, piping connection for gas should be about ⑥ from this line.

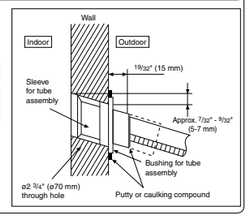
1. Mount the installation plate on the wall with 5 screws or more (at least 5 screws).
   (If mounting the unit on the concrete wall, consider using anchor bolts.)
   - Always mount the installation plate horizontally by aligning the marking-off line with the thread and using a level gauge.
2. Drill the piping plate hole with ø2 3/4" (ø70 mm) hole-core drill.
   - Line according to the left and right side of the installation plate. The meeting point of the extended line is the center of the hole. Another method is by putting measuring tape at position as shown in the diagram above. The hole center is obtained by measuring the distance namely 5 1/16" (128 mm) for left and right hole respectively.
   - Drill the piping hole at either the right or the left and the hole should be slightly slanting to the outdoor side.

3 TO DRILL A HOLE IN THE WALL AND INSTALL A SLEEVE OF PIPING

1. Insert the piping sleeve to the hole.
2. Fix the bushing to the sleeve.
3. Cut the sleeve until it extrudes about 19/32" (15 mm) from the wall.

⚠ CAUTION
When the wall is hollow, please be sure to use the sleeve for tube assembly to prevent dangers caused by mice biting the connection cable.

4. Finish by sealing the sleeve with putty or caulking compound at the final stage.

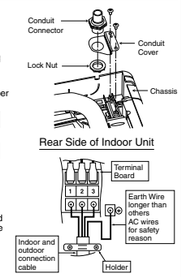


5 CONNECT THE CABLE TO THE INDOOR UNIT

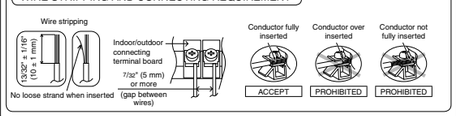
1. The inside and outside connection cable can be connected without removing the front grille.
2. Unscrew the conduit cover and fix the conduit connector to conduit cover with lock nut, then secure it against chassis.
3. Connection cable between indoor unit and outdoor unit should be UL listed or CSA approved 4 conductor wires minimum AWG16 in accordance with local electric codes.
   - Ensure the colour of wires of outdoor unit and terminal number are the same as the indoor's repectively.

Terminals on the indoor unit	1	2	3	⏚
Colour of wires (connection cable)				
Terminals on the outdoor unit	1	2	3	⏚

⚠ WARNING
This equipment must be properly earthed.
- Earth lead wire shall be Yellow/Green (Y/G) in colour and shall be longer than other lead wires as shown in the figure for electrical safety in case of the slipping.

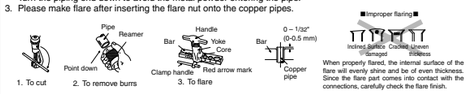


WIRE STRIPPING AND CONNECTING REQUIREMENT



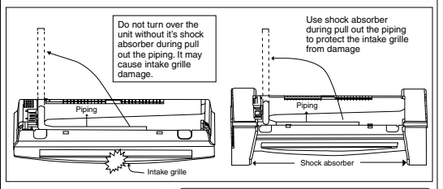
CUTTING AND FLARING THE PIPING

1. Please cut using pipe cutter and then remove the burrs.
2. Remove the burrs by using reamer. If burrs is not removed, gas leakage may be caused.
   Turn the piping end down to avoid the metal powder entering the pipe.
3. Please make flare after inserting the flare nut onto the copper pipes.



When properly flared, the internal surface of the flare will evenly shine and be of even thickness. Since the flare part comes into contact with the connections, carefully check the flare finish.

4 INDOOR UNIT INSTALLATION


Do not turn over the unit without it's shock absorber during pull out the piping. It may cause intake grille damage.
Use shock absorber during pull out the piping to protect the intake grille from damage
Piping
Intake grille
Piping
Shock absorber

1. FOR THE RIGHT REAR PIPING

- Step-1 Pull out the Indoor piping
- Step-2 Install the Indoor Unit
- Step-3 Secure the Indoor Unit
- Step-4 Insert the connection cable

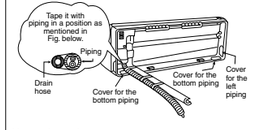
2. FOR THE RIGHT BOTTOM PIPING

- Step-1 Pull out the Indoor piping
- Step-2 Install the Indoor Unit
- Step-3 Insert the connection cable
- Step-4 Secure the Indoor Unit

3. FOR THE EMBEDDED PIPING

- Step-1 Replace the drain hose
- Step-2 Bend the embedded piping
  - Use a spring bender or equivalent to bend the piping so that the piping is not crushed.
- Step-3 Pull the connection cable into Indoor Unit
  - The inside and outside connection cable can be connected without removing the front grille.
- Step-4 Cut and flare the embedded piping
  - When determining the dimensions of the piping, slide the unit all the way to the left on the installation plate.
  - Refer to the section "Cutting and flaring the piping".
- Step-5 Install the Indoor Unit
- Step-6 Connect the piping
  - Please refer to "Connecting the piping" column in outdoor unit section. (Below steps are done after connecting the outdoor piping and gas-leakage confirmation.)
- Step-7 Insulate and finish the piping
  - Please refer to "Insulation of piping connection" column as mentioned in indoor/outdoor unit installation.
- Step-8 Secure the Indoor Unit

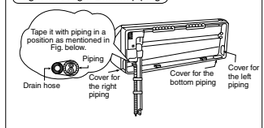
Right Rear piping


Tape it with piping in a position as mentioned in Fig. below.
Piping
Drain hose
Cover for the bottom piping
Cover for the left piping

How to keep the cover

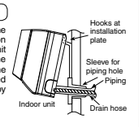
In case of the cover is cut, keep the cover at the rear of chassis as shown in the illustration for future reinstallation.
(Left and 2 bottom covers for piping.)

Right and Right Bottom piping


Tape it with piping in a position as mentioned in Fig. below.
Piping
Drain hose
Cover for the right piping
Cover for the bottom piping
Cover for the left piping

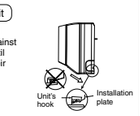
Install the indoor unit

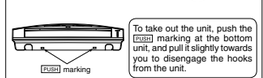
Hook the indoor unit onto the upper portion of installation plate. (Engage the indoor unit with the upper edge of the installation plate). Ensure the hooks are properly seated on the installation plate by moving it in left and right.



Secure the Indoor Unit

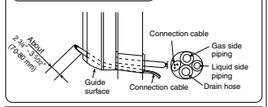
1. Press the lower left and right side of the unit against the installation plate until hooks engages with their slot (sound click).





To take out the unit, push the PUSH marking at the bottom unit, and pull it slightly towards you to disengage the hooks from the unit.

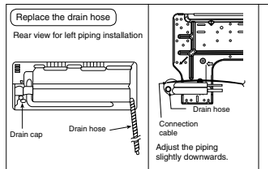
Insert the connection cable



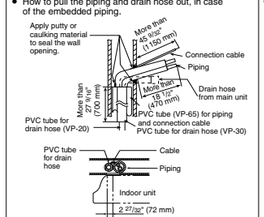
(This can be used for left rear piping and bottom piping also.)

Replace the drain hose

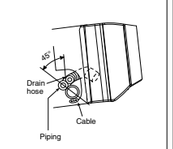
Rear view for left piping installation



- How to pull the piping and drain hose out, in case of the embedded piping.


Apply putty or caulking material to seal the wall opening.
More than 45 9/32" (1150 mm)
Connection cable
Piping
Drain hose from main unit
More than 27 9/16" (700 mm)
More than 18 1/2" (470 mm)
PVC tube for drain hose (VP-20)
PVC tube (VP-65) for piping and connection cable
PVC tube for drain hose (VP-30)
PVC tube for drain hose
Cable
Piping
Indoor unit
2 27/32" (72 mm)

- In case of left piping how to insert the connection cable and drain hose.

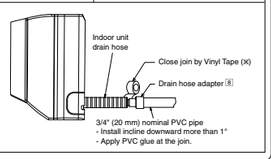


(For the right piping, follow the same procedure)

Drain hose adapter 8 usage

- Join indoor drain hose to 3/4" (20 mm) nominal PVC pipe size by using drain hose adapter 8 when necessary.

Remarks :
Make sure indoor unit drain hose & 3/4" (20 mm) nominal PVC pipe are fully inserted to drain hose adapter 8.

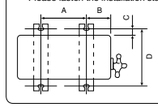

Indoor unit drain hose
Close join by Vinyl Tape (※)
Drain hose adapter 8
3/4" (20 mm) nominal PVC pipe
- Install incline downward more than 1°
- Apply PVC glue at the join.

OUTDOOR UNIT

1 SELECT THE BEST LOCATION
(Refer to "Select the best location" section)

2 INSTALL THE OUTDOOR UNIT

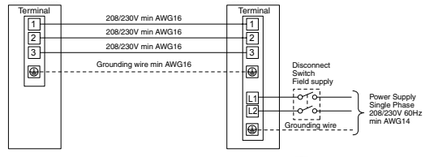
- After selecting the best location, start installation to Indoor/Outdoor Unit Installation Diagram.
1. Fix the unit on concrete or rigid frame firmly and horizontally by bolt nut ø13/32" (ø10 mm).
2. When installing at roof, please consider strong wind and earthquake.
   Please fasten the installation stand firmly with bolt or nails.

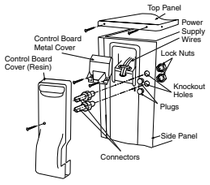


Model	A	B	C	D
S9NKUA, S12NKUA	22 7/16" (570 mm)	4 1/8" (105 mm)	23/32" (18.5 mm)	12 19/32" (320 mm)

5 CONNECT THE CABLE TO THE OUTDOOR UNIT

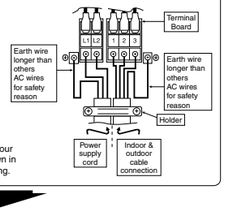
1. Remove Top panel.
2. Remove Control Board Cover (Resin and Metal).
3. Remove Plugs.
4. Fix the conduit connectors to the knockout holes with lock-nuts, then secure them against the side panel.
5. All wires pass through conduits.
6. Connection cable between indoor unit and outdoor unit should be UL listed or CSA approved 4 conductor wires minimum AWG16 in accordance with local electric codes.
7. Wire connection to the power supply (208/230V 60Hz) through circuit breaker.
   - Connect the UL listed or CSA approved wires minimum AWG14 to the terminal board, and connect the other end of the wires to ELCB / GFCI.
8. Connect the power supply cord and connection cable between indoor unit and outdoor unit according to the diagram below.





9. Secure the wire onto the control board with the holder (clamper).
10. After completing wiring connections, reattach the control board cover (Metal and Resin) and the top panel to the original position with the screws.
11. For wire stripping and connection requirement, refer to instruction ⑤ of indoor unit.

⚠ WARNING
This equipment must be properly earthed.
- Earth lead wire shall be Yellow/Green (Y/G) in colour and shall be longer than other lead wires as shown in the figure for electrical safety in case of the slipping.


Terminal Board
Earth wire longer than others AC wires for safety reason
Earth wire longer than others AC wires for safety reason
Holder
Power supply cord
Indoor & outdoor cable connection

6 PIPING INSULATION

1. Please carry out insulation at pipe connection portion as mentioned in Indoor/Outdoor Unit Installation Diagram. Please wrap the insulated piping end to prevent water from going inside the piping.
2. If drain hose or connecting piping is in the room (where dew may form), please increase the insulation by using POLY-E FOAM with thickness 1/4"(6 mm) or above.

3 CONNECT THE PIPING

Connecting The Piping to Indoor

Please make flare after inserting flare nut (locate at joint portion of tube assembly) onto the copper pipe. (In case of using long piping)

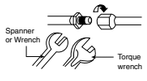
Connect the piping
- Align the center of piping and sufficiently tighten the flare nut with fingers.
- Further tighten the flare nut with torque wrench in specified torque as stated in the table.

Do not overtighten, over tightening may cause gas leakage.

Piping size	Torque
1/4" (6.35 mm)	13.3 lbf.ft (18N•m (1.8 kgf.m)
3/8" (9.52 mm)	31.0 lbf.ft (42 N•m (4.3 kgf.m)
1/2" (12.7 mm)	40.6 lbf.ft (55 N•m (5.6 kgf.m)
5/8" (15.88 mm)	47.9 lbf.ft (65 N•m (6.6 kgf.m)
3/4" (19.05 mm)	73.8 lbf.ft (100 N•m (10.2 kgf.m)

Connecting The Piping to Outdoor

Decide piping length and then cut by using pipe cutter.
Remove burrs from cut edge.
Make flare after inserting the flare nut (locate at valve) onto the copper pipe.
Align center of piping to valve and then tighten with torque wrench to the specified torque as stated in the table.

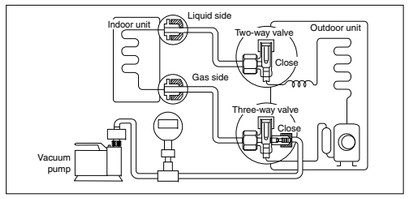


Gas Leak Checking

Pressure test to system to 400 PSIG with dry nitrogen, in stages. Thoroughly leak check the system.
If the pressure holds, release the nitrogen and proceed to section 4.

4 EVACUATION OF THE EQUIPMENT

WHEN INSTALLING AN AIR CONDITIONER, BE SURE TO EVACUATE THE AIR INSIDE THE INDOOR UNIT AND PIPES in the following procedure.

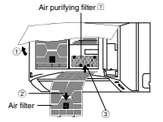


1. Connect a charging hose with a push pin to the Low side of a charging set and the service port of the 3-way valve.
2. Connect the micron gauge between vacuum pump and service port of outdoor units.
3. Turn on the power switch of the vacuum pump and make sure that connect digital micron gauge and to pull down to a value of 500 microns.
4. To make sure micron gauge a value 500 microns and close the low side valve of the charging set and turn off the vacuum pump.
5. Disconnect the vacuum pump house from the service port of the 3-way valve.
6. Tighten the service port caps of the 3-way valve at a torque of 13.3 lbf.ft (18 N•m) with a torque wrench.
7. Remove the valve caps of both of the 2-way valve and 3-way valve. Position both of the valves to "Open" using a hexagonal wrench (5/32" (4 mm)).
8. Mount valve caps onto the 2-way valve and the 3-way valve.
   - Be sure to check for gas leakage.

- If micron gauge value does not descend 500 microns, take the following measures:
- If the leak stops when the piping connections are tightened further, continue working from step ③.
- If the leak does not stop when the connections are retightened, repair location of leak.
- Do not release refrigerant during piping work for installation and reinstallation.
- Be careful with the liquid refrigerant, it may cause frostbite.

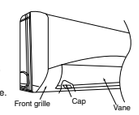
INSTALLATION OF AIR PURIFYING FILTER

1. Open the front panel.
2. Remove the air filters.
3. Put the air purifying filter into place as shown in illustration at right.

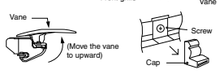


HOW TO TAKE OUT FRONT GRILLE

Please follow the steps below to take out front grille if necessary such as when servicing.
1. Set the vertical airflow direction louvers to the horizontal position.
2. Slide down the 2 caps on the front grille as shown in the illustration at right, and then remove the 2 mounting screws.
3. Pull the lower section of the front grille towards you to remove the front grille.



When reinstalling the front grille, first set the vertical airflow direction louver to the horizontal position and then carry out above steps 2 - 3 in the reverse order.

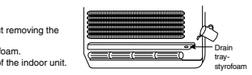


AUTO SWITCH OPERATION

The below operations will be performed by pressing the "AUTO" switch.
1. AUTO OPERATION MODE
   The Auto operation will be activated immediately once the Auto Switch is pressed and released before 5 sec..
2. TEST RUN OPERATION (FOR PUMP DOWN/SERVICING PURPOSE)
   The Test Run operation will be activated if the Auto Switch is pressed continuously for more than 5 sec. A "pep" sound will occur at the fifth sec., in order to identify the starting of Test Run operation.
3. REMOTE CONTROLLER RECEIVING SOUND ON/OFF
   The ON/OFF of Remote controller receiving sound can be change over by the following steps:
   a) Press AUTO switch continuously until "pep pep pep pep" sound is heard (about 16 sec.).
   b) Release the Auto switch button.
   c) Press the remote controller "AC RESET" button once, "pep" sound will occur.
   d) Press Auto switch again. Everytime Auto switch is pressed (within 60 sec. interval), remote controller receiving sound status will be reversed between ON and OFF.
   Long "peep" sound indicates that remote controller receiving sound is ON.
   Short "pep" sound indicates that remote controller receiving sound is OFF.

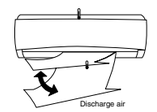
CHECK THE DRAINAGE

- Open front panel and remove air filters.
  (Drainage checking can be carried out without removing the front grille.)
- Pour a glass of water into the drain tray-styrofoam.
- Ensure that water flows out from drain hose of the indoor unit.



EVALUATION OF THE PERFORMANCE

- Operate the unit at cooling operation mode for fifteen minutes or more.
- Measure the temperature of the intake and discharge air.
- Ensure the difference between the intake temperature and the discharge is more than 46.4°F (8°C).



CHECK ITEMS

- ☐ Is there any gas leakage at flare nut connections?
- ☐ Has the heat insulation been carried out at flare nut connection?
- ☐ Is the connection cable being fixed to terminal board firmly?
- ☐ Is the connection cable being clamped firmly?
- ☐ Is the drainage ok? (Refer to "Check the drainage" section)
- ☐ Is the earth wire connection properly done?
- ☐ Is the indoor unit properly hooked to the installation plate?
- ☐ Is the power supply voltage complied with rated value?
- ☐ Is there any abnormal sound?
- ☐ Is the cooling operation normal?
- ☐ Is the thermostat operation normal?
- ☐ Is the remote control's LCD operation normal?
- ☐ Is the Air purifying filter installed?

ENGLISH

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